PCT

REQUEST

For receiving Office use only
102100011111111111111111111111111111111
International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office	ce and "PCT Interna	ational Application"	
	Applicant's or agent's f (if desired) (12 characte	ile reference rs maximum) SO3	3P1233WO00	
Box No. I TITLE OF INVENTION			ļ	
OPTICAL UNIT AND IMAGE-PICKUP APPARA	TUS			
Box No. II APPLICANT This person	on is also inventor			
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	Telephone No. 03-5448-2111			
SONY CORPORATION		Facsimile No. 03-5448-2	2244	
7-35, Kitashinagawa 6-chome, Shinagawa-ku, TOKYO 141-0001	TAPAN			
Shinagawa-ku, lokio 141-0001 t	JAIAN	Teleprinter No.		
		Applicant's regist	ration No. with the Office	
State (that is, country) of nationality: JAPAN	State (that is, country)	of residence:	JAPAN	
1 1 ms person is approved 1 = 10 ms 1(7 4 +1 2)	states of America	the United States of America only	the States indicated in the Supplemental Box	
for the purposes of: States V the United Box No. III FURTHER APPLICANT(S) AND/OR (FUR				
Name and address: (Family name followed by given name; for a legal e The address must include postal code and name of country. The country o Box is the applicant's State (that is, country) of residence if no State of reside IMAI Satoshi c/o SONY CORPORATION 7-35, Kitashinagawa 6-chom Shinagawa-ku, TOKYO 141-00	This person is: applicant only V applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: JAPAN	State (that is, country) of residence:	JAPAN	
This person is applicant all designated all design for the purposes of:	ated States except d States of America	the United States of America only	the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicate	d on a continuation sheet			
Box No. IV AGENT OR COMMON REPRESENTATIVE	······································		ENCE	
The person identified below is hereby/has been appointed to a of the applicant(s) before the competent International Authorit	ct on behalf ties as:	agent	common representative	
Name and address: (Family name followed by given name; for a legal The address must include postal code and name of	entity, full official designation of country.)		2 5021	
12288 Attorney TSUNODA Yoshisue	}		3-5821	
Shinjuku Bldg., 8-1, Nishishinjuku 1-chome,		Facsimile No. 03-3348-2746		
Shinjuku-ku, TOKYO 160-0023 JAPA	****	Teleprinter No.		
			tion No. with the Office	
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.				

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)				
If none of the following sub-boxes is used, this sheet should not	be included in the request.			
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence.	e address indicated in this			
AOKI Nobuaki c/o SONY CORPORATION 7-35, Kitashinagawa 6-chome, Shinagawa-ku, TOKYO 141-0001	JAPAN applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: JAPAN	State (that is, country) of residence: JAPAN			
This person is applicant all designated for the purposes of:	States except attes of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entitude address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence of the State of t	applicant only applicant and inventor inventor only (If this check-bax is marked, do not fill in below.)			
State (that is, country) of nationality: JAPAN	State (that is, country) of residence: JAPAN			
	d States except the United States the States indicated in tates of America U of America only the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) YAMAOKA Hideki c/o SONY EMCS CORPORATION 7-35, Kitashinagawa 6-chome, Shinagawa-ku, TOKYO 141-0001 JAPAN This person is: applicant only inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office				
State (that is, country) of nationality: JAPAN	State (that is, country) of residence: JAPAN			
This person is applicant all designated all designate for the purposes of:	d States except tates of America only the United States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal en The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of residen	the address indicated in this			
State (that is, country) of nationality:	State (that is, country) of residence:			
This person is applicant all designated all designate for the purposes of:	ed States except the United States the States indicated in States of America only the Supplemental Bo			
Further applicants and/or (further) inventors are indicated on another continuation sheet.				

Sheet	No		3	

Box No.	V DESIGNATION OF STATES	Mark the applicable check-boxes below; at least one must be marked.	
The follo	wing designations are hereby made und	ar Rule 4.9(a):	
Regiona			1
	ARIPO Patent: GH Ghana, GM	ambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SI	D Sudan,
	State which is a Contracting State of	uted Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and the Harare Protocol and of the PCT (if other kind of protection or treatment	ut desired,
□ EA	Eurasian Patent: AM Armenia, AZ A RU Russian Federation, TJ Tajikistan Patent Convention and of the PCT	zerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of TM Turkmenistan, and any other State which is a Contracting State of the	Moldova, Eurasian
	Republic, DE Germany, DK Denmar HU Hungary, IE Ireland, IT Italy, LU SI Slovenia, SK Slovakia, TR Turker and of the PCT	Igium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, G: Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SI and any other State which is a Contracting State of the European Patent C	R Greece, E Sweden, onvention
OA	GA Gabon, GN Guinea, GQ Equato	Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM (ial Guinea, GW Guinea-Bissan, ML Mali, MR Mauritania, NE Niger, SP te which is a member State of OAPI and a Contracting State of the PCT (if excify on dotted line)	N Senegal, other kind
Nation	al Patent (if other kind of protection of	treatment desired, specify on dotted line):	ł
I CI AR	United Arab Emirates	HR Croatia OM Oman	
☐ AG	Antigua and Barbuda	HU Hungary	1
☐ AL	Albania	ID Indonesia	
☐ AM	Armenia	IL Israel	
		IN India	
	Australia	JP Japan	}
AZ	Azerbaijan	KE Kenya	
1		KG Kyrgyzstan SC Seychelles	
BC	Bulgaria	KP Democratic People's Republic SD Sudan	ļ
	Brazil		ļ
☐ BY	Belarus	KR Republic of Korea	
□ BZ	Belize	KZ Kazakhstan SK Slovakia	
		LC Saint Lucia SL Sierra Leone	
	I & LI Switzerland and Liechtenstein		
V CN	China	LR Liberia TJ Tajikistan	
		LS Lesotho	· · · · · · · · · · ·
	R Costa Rica		
	J Cuba		
	Z Czech Republic		
	C Demany	☐ MD Republic of Moldova ☐ TZ United Republic of Ta	mzania
1 —	M Dominica	WID Republic of Moladova	
מ 🗆	Z Alperia	☐ MG Madagascar	
	C Ecuador	MK The former Yugoslav Republic of US United States of Ame	rica
	E Estonia	Macedonia	
□ E	S Spain	MN Mongolia UZ Uzbekistan	
		MWMalawi	Grenadines
G	B United Kingdom	MX Mexico	
🗖 G	D Grenada	MZ Mozambique	го
	E Georgia		
	H Ghana	□ NO Norway □ Zavi Zambia □ NZ New Zealand □ ZW Zimbabwe	
-	M Gambia		,
		States which have become party to the PCT after issuance of this sheet:	
Prec	autionary Designation Statement: In	addition to the designations made above, the applicant also makes under R	ule 4.9(b) all
other exch	designations which would be permitted aded from the scope of this statement. The designation which is not confirmed before	I under the PCT except any designation(s) indicated in the Supplemental applicant declares that those additional designations are subject to confirm the expiration of 15 months from the priority date is to be regarded as with	Box as being ation and that adrawn by the
appli	cant at the expiration of that time limit.	Confirmation (including fees) must reach the receiving Office within the 15-mo	nth time limit.)

If the Supplemental Box is not used, this sheet should not be included in the request.

- I. If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No..." (Indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
- (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Bax No. II or in any of the sub-baxes of Bax No. III, the indication "the States indicated in the Supplemental Bax" is checked: in such case, write "Continuation of Bax No. II" or "Continuation of Baxes No. III" or "Continuation of Baxes No. III and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. II" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
 - (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
 - (v) if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
 - (vi) if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
 - 2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

[Continuation of Box No. IV]
11351 Attorney ISOYAMA Hironobu
Shinjuku Bldg., 8-1, Nishishinjuku 1-chome,
Shinjuku-ku, TOKYO 160-0023 JAPAN

Telephone No. 03-3343-5821 Facsimile No. 03-3348-2746

Sheet No. 5

Box No. VI PRIORITY	CLAIM			
The priority of the following	g earlier application(s) is herel	by claimed:		
Filing date	Number	V	Vhere earlier application	is:
of earlier application of earlier application (day/month/year)		national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1)				
24.10.02	P2002-310201	JAPAN	ļ	
item (2)				
item (3)				
item (4)				
item (5)				
Further priority claims	s are indicated in the Supplem	nental Box.		
* Where the earlier application industrial Property or one Box No. VII INTERNATION INTERNA	Searching Authority (ISA) (in the state of the Authority chosen; the state of the search; reference to suthority):	indicate at least one count Organization for which that UTHORITY If two or more International wo-letter code may be used that search (if an earlier	l earlier application was	re competent to carry out the
Date (day/month/year)			andy (or regional ogress)	,
Box No. VIII DECLAR	ATIONS			
The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable Number of check-boxes below and indicate in the right column the number of each type of declaration): declarations				
Box No. VIII (i)	Declaration as to the ide	ntity of the inventor		:
Box No. VIII (ii)	Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent:			
Box No. VIII (iii)	No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :			
Box No. VIII (iv)	Declaration of inventor United States of Ameri	ship (only for the purpose ca)	s of the designation of th	ne :
Box No. VIII (v)	Declaration as to non-p	orejudicial disclosures or e	xceptions to lack of nove	elty :

Box No. IX CHECK LIST; LANGUAGE O	F FILING			
This international application contains: a) in paper form, the following number of	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in	Number of items		
sheets:	right column the number of each item): 1. V fee calculation sheet	: 1		
request (including declaration sheets) : 6	2. original separate power of attorney	: 1		
description (excluding	original general power of attorney			
sequence listings and/or	4. ☑ copy of general power of attorney, reference number,			
tables related thereto) : 15	if any:	: 2		
claims : 2	5. statement explaining lack of signature	:		
	6. Dipriority document(s) identified in Box No. VI as item(s):			
drawings : / Sub-total number of sheets : 31	item(s):	:1		
sequence listings :	(language):	:		
tables related thereto : (for both, actual number of	8. separate indications concerning deposited microorganism or other biological material	:		
sheets if filed in paper form, whether or not also filed in	9. sequence listings in computer readable form (indicate type and number of carriers)			
computer readable form; see (c) below)	(i) Copy submitted for the purposes of international search u	mder		
Total number of sheets : 31	Rule 13ter only (and not as part of the international appli (ii) (only where check-box (b)(i) or (c)(i) is marked in left column	nn)		
(b) only in computer readable form (Section 801(a)(i))	additional copies including, where applicable, the copy is purposes of international search under Rule 13 <i>ter</i>	or the :		
(i) sequence listings	(iii) together with relevant statement as to the identity of the copies with the sequence listings mentioned in left columns.	copy or nn :		
 (ii) ☐ tables related thereto (c) ☐ also in computer readable form 	10 tables in computer readable form related to sequence listing			
(Section 801(a)(ii))	(indicate type and number of carriers) (i) copy submitted for the purposes of international search	under		
 (i) ☐ sequence listings (ii) ☐ tables related thereto 	Section 802(b-quater) only (and not as part of the internapplication)	ational :		
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are	(ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column additional copies including, where applicable, the copy	tor the		
contained the purposes of international search under Section 802(b-quater):				
sequence listings:	(iii) together with relevant statement as to the identity of the copies with the tables mentioned in left column	copy or :		
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. other (specify):	:		
Figure of the drawings which should accompany the abstract: 1	Language of filing of the international application: Japanese			
BOY NO Y SIGNATURE OF APPLICAN	T. AGENT OR COMMON REPRESENTATIVE			
Next to each signature, indicate the name of the person st	igning and the capacity in which the person signs (if such capacity is not obvious from	reading the request)		
TSU	NODA Yoshisue(Seal)			
		•		
ISO	YAMA Hironobu(Seal)			
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Date of actual receipt of the purported	2.	Drawings:		
international application:	\ r	received:		
3. Corrected date of actual receipt due to late timely received papers or drawings complete the presented integrational amplication.	r but sting			
4. Date of timely receipt of the required				
corrections under PCT Article 11(2):				
5. International Searching Authority (if two or more are competent): ISA /	JP 6. Transmittal of search copy delayed until search fee is paid			
	For International Bureau use only			
Date of receipt of the record copy		•		
by the International Bureau:				